

Author Index to Volume 181

- Achiba, Y., see Y. Kajii 181 (1991) 100
Adhikari, S.K., Anomalies of variational phase shifts 181 (1991) 435
Adolph, H.G., see P. Politzer 181 (1991) 78
Agranat, I., T.P. Radhakrishnan, W.C. Herndon and A. Skancke, Evaluation of Y- versus linear-delocalization and the role of charge alternation in trimethylenemethane dianion and butadiene dianions 181 (1991) 117
Agrawal, R.K. and V.S. Varma, Phase transition in an ensemble of anharmonic oscillators 181 (1991) 441
Akamatsu, N., K. Domen, C. Hirose, T. Onishi, H. Shimizu and K. Masutani, SFG study of rotational anisotropy of cadmium arachidate Langmuir-Blodgett films 181 (1991) 175
Alfimov, M.V., see M.F. Budyka 181 (1991) 59
Al Jghami, I.F., see A.P. Losev 181 (1991) 45
Almlöf, J., Elimination of energy denominators in Möller-Plesset perturbation theory by a Laplace transform approach 181 (1991) 319
Almlöf, J., see M. Häser 181 (1991) 497
Andreocci, M.V., M. Bossa, A. Furlani, G. Polzonetti and M.V. Russo, Iodine-polyphenylacetylene charge-transfer complex: an ab initio quantum-chemical assessment 181 (1991) 582
Andrews, L., see Z. Mielke 181 (1991) 355
Angerhofer, A., see V. Aust 181 (1991) 213
Asahi, T., see A. Osuka 181 (1991) 413, 419
Atkinson, J.B., see W. Kedzierski 181 (1991) 427
Aust, V., A. Angerhofer, J. Ullrich, J.U. von Schütz, H.C. Wolf and R.J. Cogdell, ADMR of carotenoid triplet states in bacterial photosynthetic antenna and reaction center complexes 181 (1991) 213
Balasubramanian, K., see Z. Ma 181 (1991) 467
Banerjee, A.K., see L. Kundu 181 (1991) 569
Basché, Th. and C. Bräuchle, Temperature dependent hole-burning study of dye molecules adsorbed on metal oxide powders 181 (1991) 179
Batchelor, S.N., K.A. McLaughlan and I.A. Shkrob, Time-resolved reaction yield detected magnetic resonance (RYDMR) 181 (1991) 327
Bauschlicher Jr., C.W. and H. Partridge, Mg^+ -ligand binding energies 181 (1991) 129
Bauschlicher Jr., C.W., see M. Sodupe 181 (1991) 321
Beavis, R.C. and B.T. Chait, Velocity distributions of intact high mass polypeptide molecule ions produced by matrix assisted laser desorption 181 (1991) 479
Benning, P.J., see G.H. Kroll 181 (1991) 112
Berlyand, L.V., N.V. Chukanov and V.A. Dubovitsky, Exactly solvable random model and IR spectroscopy of a strained defective lattice 181 (1991) 450
Bhattacharyya, S.N., see R. Sen 181 (1991) 288
Bhattacharyya, S.P., see R. Sen 181 (1991) 288
Bhattacharyya, S.P., see P. Dutta 181 (1991) 293
Biczok, L., see M. Hugerat 181 (1991) 400

- Birk, H. and H. Jones, Diode-laser measurement of the infrared spectrum of tin monosulfide 181 (1991) 245
- Bjerre, N., I. Hazell and D.C. Lorents, Spin-orbit coupling in H_3 181 (1991) 301
- Börner, K., G. Diezemann, E. Rössler and H.M. Vieth, Low-temperature methyl group dynamics of hexamethylbenzene in crystalline and glassy matrices as studied by 2H NMR 181 (1991) 563
- Bossa, M., see M.V. Andreocci 181 (1991) 582
- Bräuchle, C., see Th. Basché 181 (1991) 179
- Budyka, M.F., A.G. Rachinsky and M.V. Alfimov, Donor-acceptor complexes: the model of unlimited co-aggregation or polycomplexes formation 181 (1991) 59
- Byteva, I.M., see A.P. Losev 181 (1991) 45
- Campagnola, P.J., D.M. Cyr and M.A. Johnson, Size-dependent collisional incorporation of D_2O into $(H_2O)_n^-$ around $n=15$: implications on the origin of magic numbers in the hydrated electron cluster distribution 181 (1991) 206
- Carrere, D., see L. Schriver 181 (1991) 505
- Castleman Jr., A.W., see B.C. Guo 181 (1991) 16
- Cederbaum, L.S. and H.-D. Meyer, On natural orbitals for properties 181 (1991) 163
- Chabal, Y.J., see P. Dumas 181 (1991) 537
- Chait, B.T., see R.C. Beavis 181 (1991) 479
- Chen, R., A.G. Marshall and M. Wang, Ion-locked cyclotron resonance: a means for instantaneously changing ion cyclotron orbital radius 181 (1991) 168
- Chen, X., see K. Du 181 (1991) 344
- Chen, Y., see G.H. Kroll 181 (1991) 112
- Chernyak, V. and R. Reisfeld, Spectroscopic behaviour of malachite green in sol-gel glasses 181 (1991) 39
- Chibante, L.P.F., see G.H. Kroll 181 (1991) 112
- Chowdhury, M., see L. Kundu 181 (1991) 569
- Chukanov, N.V., see L.V. Berlyand 181 (1991) 450
- Cioslowski, J., Electronic structures of the icosahedral $C_{60}H_{60}$ and $C_{60}F_{60}$ molecules 181 (1991) 68
- Cogdell, R.J., see V. Aust 181 (1991) 213
- Colson, S.D., see G. Reiser 181 (1991) 1
- Cornell, B.A., see F. Separovic 181 (1991) 157
- Cyr, D.M., see P.J. Campagnola 181 (1991) 206
- Cyvin, S.J., Note on the series of fully benzenoid hydrocarbons with a constant number of isomers 181 (1991) 431
- Dantus, M., M.H.M. Janssen and A.H. Zewail, Femtosecond probing of molecular dynamics by mass-spectrometry in a molecular beam 181 (1991) 281
- Darsey, J.A., D.W. Noid and B.R. Upadhyaya, Application of neural network computing to the solution for the ground-state eigenenergy of two-dimensional harmonic oscillators, Chem. Phys. Letters 177 (1991) 189. Erratum 181 (1991) 386
- Datar, A.S. and S.D. Prasad, Adsorbate clustering and surface rates above T_c : a modified mean-field approach 181 (1991) 445
- De Santis, A., A. Gregori and D. Rocca, Microscopic configurations and shape of the atom-atom pair distribution function of liquid chlorine 181 (1991) 579
- Destro, R., Proton transfer in the solid state: thermodynamic parameters from an X-ray study in the temperature range 20–293 K 181 (1991) 232
- Diezemann, G., see K. Börner 181 (1991) 563
- Distefano, G., see A. Modelli 181 (1991) 361

Domen, K., see N. Akamatsu	181 (1991) 175
Dopfer, O., see G. Reiser	181 (1991) 1
Down, S.E., see D.E. Manolopoulos	181 (1991) 105
Dressler, R.A., see J.A. Gardner	181 (1991) 5
Drozdov, N.N., see A.P. Losev	181 (1991) 45
Du, K., X. Chen and D.W. Setser, Identification of the $\text{SiCl}_2(\tilde{a}^3\text{B}_1-\tilde{X}^1\text{A}_1)$ emission system and a flow reactor source of $\text{SiCl}_2(\tilde{a}^3\text{B}_1)$	181 (1991) 344
Dubois, L.H., see B.J. Hinch	181 (1991) 10
Dubovitsky, V.A., see L.V. Berlyand	181 (1991) 450
Dumas, P. and Y.J. Chabal, Electron-energy-loss characterization of the H-terminated Si(111) and Si(100) surfaces obtained by etching in NH_4F	181 (1991) 537
Durup, J., see F.X. Gadea	181 (1991) 378
Dutta, P., D. Majumdar and S.P. Bhattacharyya, Global optimization of molecular geometry: a new avenue involving the use of Metropolis simulated annealing	181 (1991) 293
Dvorak, M.A., see S.W. Reeve	181 (1991) 259
Dye, R.C., R.E. Muenchausen and N.S. Nogar, Laser ablation of Y_2O_3 in an oxygen atmosphere	181 (1991) 531
Ebbesen, T.W., K. Tanigaki and S. Kuroshima, Excited-state properties of C_{60}	181 (1991) 501
Fallon, P.J., see P.L. Hansen	181 (1991) 367
Fastrup, B., see M. Muhler	181 (1991) 380
Feliz, M. and G. Ferraudi, Mechanism of the photoreversible $\text{ClRe}(\text{CO})_3(4\text{-phenylpyridine})_2$ -induced reduction of a Cu(II) macrocycle	181 (1991) 201
Ferraudi, G., see M. Feliz	181 (1991) 201
Firth, D.W., see S.W. Reeve	181 (1991) 259
Furlani, A., see M.V. Andreocci	181 (1991) 582
Gadea, F.X. and J. Durup, Comment on "Photodissociation of Ar_n^+ cluster ions"	181 (1991) 378
Gardner, J.A., R.A. Dressler, R.H. Salter and E. Murad, A laboratory study of charge transfer and hydrogen atom pickup reactions in $\text{N}^+-\text{H}_2\text{O}(\text{D}_2\text{O})$ collisions at suprathermal energies	181 (1991) 5
Gerber, R.B. and A.T. Yinnon, Properties of atom scattering from percolation lattices: He scattering from substitutionally disordered Xe+Kr monolayers	181 (1991) 553
Gole, J.L., see C.B. Winstead	181 (1991) 222
Gotts, N.G., R. Hallett, J.A. Smith and A.J. Stace, A new perspective to the photodissociation of cluster ions: the detection of neutral fragments following the photoexcitation of Ar_3^+	181 (1991) 491
Grantier, D., see C.B. Winstead	181 (1991) 222
Gregori, A., see A. De Santis	181 (1991) 579
Grotheer, H.H., see H. Oser	181 (1991) 521
Grotheer, O., see H. Oser	181 (1991) 521
Guo, B.C. and A.W. Castleman Jr., The bonding strength of $\text{Ag}^+(\text{C}_2\text{H}_4)$ and $\text{Ag}^+(\text{C}_2\text{H}_4)_2$ complexes	181 (1991) 16
Haarer, D., see S. Jahn	181 (1991) 31
Hagiwara, S., see M. Sato	181 (1991) 526

- Hallett, R., see N.G. Gotts 181 (1991) 491
- Hammond, T., see C.B. Winstead 181 (1991) 222
- Hamrick, Y.M., R.J. Van Zee and W. Weltner Jr., ESR of bimetallic transition-metal molecules: Mo and W with Cu, Ag and Au 181 (1991) 193
- Han, K., X. Zheng, B. Sun, G. He and R. Zhang, Chemical reaction dynamics of barium atom with alkyl bromides 181 (1991) 474
- Hansen, P.L., P.J. Fallon and W. Krätschmer, An EELS study of fullerite - C_{60}/C_{70} 181 (1991) 367
- Häser, M., J. Almlöf and G.E. Scuseria, The equilibrium geometry of C_{60} as predicted by second-order (MP2) perturbation theory 181 (1991) 497
- Hashimoto, H., see E. Nishizawa 181 (1991) 387
- Hayamizu, K., see F. Separovic 181 (1991) 157
- Hayashi, H., see M. Igarashi 181 (1991) 187
- Hazell, I., see N. Bjerre 181 (1991) 301
- He, G., see K. Han 181 (1991) 474
- He, K.X., see C.B. Winstead 181 (1991) 222
- Henri, G., see G. Reiser 181 (1991) 1
- Herndon, W.C., see I. Agranat 181 (1991) 117
- Hewitt, T.D. and D. Roy, Optical second harmonic generation as a probe of hydrogen evolution on copper 181 (1991) 407
- Hinch, B.J. and L.H. Dubois, Water adsorption on Cu(111): evidence for Volmer-Weber film growth 181 (1991) 10
- Hirose, C., see N. Akamatsu 181 (1991) 175
- Hollauer, E. and M.A.C. Nascimento, A CASSCF description of the $n\pi^*$ singlet and triplet electronic excited states of the trans-glyoxal molecule 181 (1991) 463
- Hong, S.D., see B.J. Yoon 181 (1991) 73
- Howard, S.L., Low-energy threshold of the fine-structure transition in rare-gas charge transfer 181 (1991) 298
- Howell, R., A.G. Taylor and D. Phillips, Laser-induced-fluorescence spectroscopy of the jet-cooled dimer of N-ethylcarbazole 181 (1991) 21
- Hugerat, M., H. Levanon, E. Ojadi, L. Biczok and H. Linschitz, Multiple decay pathways and electron transfer in excited ion-paired zinc-copper porphyrins: laser photolysis and time-resolved EPR spectroscopy 181 (1991) 400
- Hynes, A.J., Laser-induced fluorescence of silicon monoxide in a glow discharge and an atmospheric pressure flame 181 (1991) 237
- Igarashi, M., Y. Sakaguchi, H. Hayashi and Y.J. I'Haya, Formation of α -keto alkyl radical in the photoreduction of chromone as studied by the laser photolysis-ESR technique 181 (1991) 187
- I'Haya, Y.J., see M. Igarashi 181 (1991) 187
- Jaeger, K., see L. Schriver 181 (1991) 505
- Jahn, S., D. Haarer and B.M. Kharlamov, Spectral diffusion in organic glasses measured by transient hole recovery kinetics on a time scale 1-500 ms 181 (1991) 31
- Janssen, M.H.M., see M. Dantus 181 (1991) 281
- Jhon, M.S., see B.J. Yoon 181 (1991) 73
- Jiang, R.-C. and T.-M. Su, Potassium-containing hypermetalated compounds and their water complexes: K_3OH , $K_4(OH)_2$, $K_2(OH)(H_2O)$ and $K_3(OH)(H_2O)$ 181 (1991) 373
- Johnson, M.A., see P.J. Campagnola 181 (1991) 206

Jones, D., see A. Modelli	181 (1991) 361
Jones, H., see H. Birk	181 (1991) 245
Jones, H., see R.-D. Urban	181 (1991) 485
Judson, R., see D. Neuhauser	181 (1991) 151
Kajii, Y., T. Nakagawa, S. Suzuki, Y. Achiba, K. Obi and K. Shibuya, Transient absorption, lifetime and relaxation of C ₆₀ in the triplet state	181 (1991) 100
Kalontarov, L.I. and R. Marupov, Nonstationary dynamics of laser-induced destruction of polymeric solids	181 (1991) 27
Kaneko, K., see M. Sato	181 (1991) 526
Kaziska, A.J., M.I. Shchuka and M.R. Topp, Polarized fluorescence measurements of jet-cooled 2,5-diphenylfuran and van der Waals complexes	181 (1991) 134
Kedzierski, W., J.B. Atkinson and L. Krause, Laser-induced fluorescence from the ³ Π _u (4 ³ D) state of Zn ₂	181 (1991) 427
Kellman, M.E., Z. Li and L. Xiao, Bond-selected bimolecular reactivity and phase space structure of intramolecular excited states	181 (1991) 141
Kharlamov, B.M., see S. Jahn	181 (1991) 31
Kimura, K., see M. Takahashi	181 (1991) 255
Kimura, Y., see Y. Yoshimura	181 (1991) 517
Kirsten, E., G. Parschau and K.H. Rieder, He diffraction and resonant scattering studies of Rh(110)(1×1)-2H	181 (1991) 544
Koyama, Y., see E. Nishizawa	181 (1991) 387
Krätschmer, W., see P.L. Hansen	181 (1991) 367
Krause, L., see W. Kedzierski	181 (1991) 427
Kroll, G.H., P.J. Benning, Y. Chen, T.R. Ohno, J.H. Weaver, L.P.F. Chibante and R.E. Smalley, Interaction of O ₂ with C ₆₀ : photon-induced oxidation	181 (1991) 112
Kundu, L., A.K. Banerjee and M. Chowdhury, Two-photon absorption spectrum of gadolinium elpasolite	181 (1991) 569
Kuroshima, S., see T.W. Ebbesen	181 (1991) 501
Kuskov, V.L., see G.G. Lazarev	181 (1991) 512
Lane, P., see P. Politzer	181 (1991) 78
Launay, J.M. and S.B. Padkjær, Quantum-dynamical study of the Cl+H ₂ →ClH+H reaction	181 (1991) 95
Lazarev, G.G., V.L. Kuskov, Ya.S. Lebedev and A. Rieker, The mechanism of formation of stable radical pairs by photolysis of 2,6-di-tert-butyl benzoquinone diazide in crystals of 2,6-di-tert-butyl-4-methylphenol	181 (1991) 512
Lebedev, Ya.S., see G.G. Lazarev	181 (1991) 512
Lendvay, G., Fractional bond orders in E ₂ H ₄ molecules (E=Si, Ge, and Sn)	181 (1991) 88
Leone, S.R., see H.C. Miller	181 (1991) 250
Leopold, K.R., see S.W. Reeve	181 (1991) 259
Leszczyński, J., Theoretical evaluation of new nucleic acid bases. II. Ab initio study on tautomerism of pyrazolo[4,3-d]pyrimidine-5,7(4H,6H)-dione	181 (1991) 123
Levanon, H., see M. Hugerat	181 (1991) 400
Levine, R.D., see F. Remacle	181 (1991) 307
Li, Z., see M.E. Kellman	181 (1991) 141
Lindner, R., see G. Reiser	181 (1991) 1
Linschitz, H., see M. Hugerat	181 (1991) 400

- Lorents, D.C., see N. Bjerre 181 (1991) 301
- Losev, A.P., I.N. Nichiporovich, I.M. Byteva, N.N. Drozdov and I.F. Al Jghgami, The perturbing effect of solvents on the luminescence rate constant of singlet molecular oxygen 181 (1991) 45
- Ma, Z. and K. Balasubramanian, Electronic states of WH 181 (1991) 467
- Majumdar, D., see R. Sen 181 (1991) 288
- Majumdar, D., see P. Dutta 181 (1991) 293
- Manolopoulos, D.E., J.C. May and S.E. Down, Theoretical studies of the fullerenes: C_{34} to C_{70} 181 (1991) 105
- Manzanares I., C., Photoacoustic overtone spectroscopy of liquids with continuous wave laser excitation 181 (1991) 51
- March, N.H., see Á. Nagy 181 (1991) 279
- Marshall, A.G., see R. Chen 181 (1991) 168
- Marupov, R., see L.I. Kalontarov 181 (1991) 27
- Maruyama, K., see A. Osuka 181 (1991) 413, 419
- Masutani, K., see N. Akamatsu 181 (1991) 175
- Mataga, N., see A. Osuka 181 (1991) 413, 419
- May, J.C., see D.E. Manolopoulos 181 (1991) 105
- May, V. and M. Schreiber, Electron-transfer dynamics in a donor-acceptor complex 181 (1991) 267
- McLauchlan, K.A., see S.N. Batchelor 181 (1991) 327
- Meijers, H.C. and D.A. Wiersma, Spectral diffusion in glasses: a photon-echo study of zincporphyrin in ethanol 181 (1991) 312
- Melicherčík, M. and Ľ. Treindl, The ferroin-catalyzed Belousov-Zhabotinskii system with a "clock" behaviour 181 (1991) 575
- Meyer, H.-D., see L.S. Cederbaum 181 (1991) 163
- Mielke, Z. and L. Andrews, Infrared detection of the PCO radical and HPCO molecule 181 (1991) 355
- Miller, H.C., K. Yamasaki, J.E. Smedley and S.R. Leone, An optically pumped ultraviolet laser on $SO(B^3\Sigma^- - X^3\Sigma^-)$ 181 (1991) 250
- Modelli, A., D. Jones, G. Distefano and M. Tronc, Electron affinity and dissociative electron attachment in saturated dialkyl group-16 derivatives 181 (1991) 361
- Muenchausen, R.E., see R.C. Dye 181 (1991) 531
- Muhler, M., L.P. Nielsen and B. Fastrup, Comment on "On the role of promoters in promoted iron catalysts used in the industrial synthesis of ammonia" 181 (1991) 380
- Müller-Dethlefs, K., see G. Reiser 181 (1991) 1
- Murad, E., see J.A. Gardner 181 (1991) 5
- Murray, J.S., see P. Politzer 181 (1991) 78
- Nagy, Á. and N.H. March, Kinetic energy in terms of electron density for atomic s and p shells in a bare Coulomb field 181 (1991) 279
- Nakagawa, T., see Y. Kajii 181 (1991) 100
- Nakano, H., see T. Nogami 181 (1991) 385
- Nascimento, M.A.C., see E. Hollauer 181 (1991) 463
- Neuhauser, D., R. Judson and A. Perski, Inelastic probabilities above the three-body breakup threshold via a projection operator formalism 181 (1991) 151
- Nguyen, M.T., K. Pierloot and L.G. Vanquickenborne, Fulminic acid (HCNO): bent versus linear equilibrium structure? 181 (1991) 83
- Nichiporovich, I.N., see A.P. Losev 181 (1991) 45

Nielsen, L.P., see M. Muhler	181 (1991) 380
Nishimura, Y., see A. Osuka	181 (1991) 413, 419
Nishizawa, E., H. Hashimoto and Y. Koyama, Raman spectrum of bacteriochlorophyll <i>a</i> in the <i>S</i> ₁ state	181 (1991) 387
Nogami, T., H. Nakano, Y. Shirota, S. Umegaki, Y. Shimizu, T. Uemiya and N. Yasuda, Optical second-harmonic generation from a series of [cyano-(alkyloxycarbonyl)methylene]-2-ylidene-1,3-dithiole and their methyl and dimethyl derivatives, <i>Chem. Phys. Letters</i> 155 (1989) 338. Erratum	181 (1991) 385
Nogar, N.S., see R.C. Dye	181 (1991) 531
Noid, D.W., see J.A. Darsey	181 (1991) 386
Obi, K., see Y. Kajii	181 (1991) 100
Ohno, T.R., see G.H. Kroll	181 (1991) 112
Ojadi, E., see M. Hugerat	181 (1991) 400
Onishi, T., see N. Akamatsu	181 (1991) 175
Oser, H., D. Walter, N.D. Stothard, O. Grotheer and H.H. Grotheer, Application of flow reactors to very low pressures by using CH ₃ +O(³ P) as a test reaction	181 (1991) 521
Osuka, A., K. Maruyama, N. Mataga, T. Asahi, I. Yamazaki, N. Tamai and Y. Nishimura, Photoinduced electron transfer reactions in quinone-linked zinc porphyrin arrays	181 (1991) 413
Osuka, A., H. Yamada, K. Maruyama, N. Mataga, T. Asahi, I. Yamazaki and Y. Nishimura, Picosecond dynamics of intramolecular singlet excitation energy transfer and photoinduced electron transfer in covalently-linked carotenoid-porphyrin and carotenoid-porphyrin-pyromellitimide molecules	181 (1991) 419
Ozeki, H., see M. Takahashi	181 (1991) 255
Padkjær, S.B., see J.M. Launay	181 (1991) 95
Parschau, G., see E. Kirsten	181 (1991) 544
Partridge, H., see C.W. Bauschlicher Jr.	181 (1991) 129
Perski, A., see D. Neuhauser	181 (1991) 151
Petersson, G.A., see W.A. Shirley	181 (1991) 588
Phillips, D., see R. Howell	181 (1991) 21
Picorel, R., see N.R.S. Reddy	181 (1991) 391
Pierloot, K., see M.T. Nguyen	181 (1991) 83
Politzer, P., J.S. Murray, P. Lane, P. Sjöberg and H.G. Adolph, Shock-sensitivity relationships for nitramines and nitroaliphatics	181 (1991) 78
Polomsky, P., see R.-D. Urban	181 (1991) 485
Polzonetti, G., see M.V. Andreocci	181 (1991) 582
Prasad, S.D., see A.S. Datar	181 (1991) 445
Rachinsky, A.G., see M.F. Budyka	181 (1991) 59
Radhakrishnan, T.P., see I. Agranat	181 (1991) 117
Radhakrishnan, T.P., Ground-state spin of conjugated non-Kekulé molecules	181 (1991) 455
Reddy, N.R.S., G.J. Small, M. Seibert and R. Picorel, Energy transfer dynamics of the B800-B850 antenna complex of <i>Rhodobacter sphaeroides</i> : a hole burning study	181 (1991) 391
Reeve, S.W., M.A. Dvorak, D.W. Firth and K.R. Leopold, Coriolis coupling in Ar-HCl	181 (1991) 259
Reiser, G., O. Dopfer, R. Lindner, G. Henri, K. Müller-Dethlefs, E.W. Schlag and S.D. Colson, A new approach to vibrational spectroscopy of ion clusters: the "zero kinetic energy (ZEKE)" photoelectron spectrum of the phenol-water complex	181 (1991) 1

Reisfeld, R., see V. Chernyak	181 (1991) 39
Remacle, F. and R.D. Levine, The maximum entropy of an optical spectrum and the re-distribution in phase space	181 (1991) 307
Rieder, K.H., see E. Kirsten	181 (1991) 544
Rieker, A., see G.G. Lazarev	181 (1991) 512
Rocca, D., see A. De Santis	181 (1991) 579
Rössler, E., see K. Börner	181 (1991) 563
Roy, D., see T.D. Hewitt	181 (1991) 407
Russo, M.V., see M.V. Andreocci	181 (1991) 582
Sakaguchi, Y., see M. Igarashi	181 (1991) 187
Salter, R.H., see J.A. Gardner	181 (1991) 5
Sato, M., T. Sukegawa, T. Suzuki, S. Hagiwara and K. Kaneko, Surface fractal dimensional change of microporous carbon fibers with partial graphitization	181 (1991) 526
Scheraga, H.A., see B.J. Yoon	181 (1991) 73
Schlag, E.W., see G. Reiser	181 (1991) 1
Schreiber, M., see V. May	181 (1991) 267
Schrivier, A., see L. Schriver	181 (1991) 505
Schrivier, L., D. Carrere, A. Schriver and K. Jaeger, Matrix-isolation photolysis of SO ₂ , O ₃ and H ₂ O: evidence for the H ₂ O:SO ₃ complex	181 (1991) 505
Scuseria, G.E., see M. Häser	181 (1991) 497
Sebastian, K.L., see K. Sumithra	181 (1991) 549
Seibert, M., see N.R.S. Reddy	181 (1991) 391
Sen, R., D. Majumdar, S.P. Bhattacharyya and S.N. Bhattacharyya, Hyperpolarizabilities of twisted-intramolecular-charge-transfer (TICT) molecules: a case study on <i>p</i> -dimethylaminobenzonitrile (DMABN) and <i>p</i> -dimethylaminonitrosobenzene (DMANB)	181 (1991) 288
Separovic, F., K. Hayamizu, R. Smith and B.A. Cornell, C-13 chemical shift tensor of L-tryptophan and its application to polypeptide structure determination	181 (1991) 157
Setser, D.W., see K. Du	181 (1991) 344
Shchuka, M.I., see A.J. Kaziska	181 (1991) 134
Shibuya, K., see Y. Kajii	181 (1991) 100
Shimizu, H., see N. Akamatsu	181 (1991) 175
Shimizu, Y., see T. Nogami	181 (1991) 385
Shirley, W.A. and G.A. Petersson, The convergence of coupled-cluster methods for Be ₂	181 (1991) 588
Shirota, Y., see T. Nogami	181 (1991) 385
Shkrob, I.A., see S.N. Batchelor	181 (1991) 327
Shushin, A.I., The effect of the spin exchange interaction on SNP and RYDMR spectra of geminate radical pairs	181 (1991) 274
Sigüenza, C.L., Activation of the infrared multiphoton dissociation of CF ₂ HCl	181 (1991) 351
Sjoberg, P., see P. Politzer	181 (1991) 78
Skancke, A., see I. Agranat	181 (1991) 117
Small, G.J., see N.R.S. Reddy	181 (1991) 391
Smalley, R.E., see G.H. Kroll	181 (1991) 112
Smedley, J.E., see H.C. Miller	181 (1991) 250
Smith, I.W.M. and X.-F. Yang, Vibrational energy transfer in binary collisions between isotopomers of HCN	181 (1991) 335
Smith, J.A., see N.G. Gotts	181 (1991) 491

- Smith, R., see F. Separovic 181 (1991) 157
Sodupe, M. and C.W. Bauschlicher Jr., Al^+ -ligand binding energies 181 (1991) 321
Stace, A.J., see N.G. Gotts 181 (1991) 491
Stoohard, N.D., see H. Oser 181 (1991) 521
Su, T.-M., see R.-C. Jiang 181 (1991) 373
Sukegawa, T., see M. Sato 181 (1991) 526
Sumithra, K. and K.L. Sebastian, Reaction dynamics on surfaces in the harmonic approximation 181 (1991) 549
Sun, B., see K. Han 181 (1991) 474
Suzuki, S., see Y. Kajii 181 (1991) 100
Suzuki, T., see M. Sato 181 (1991) 526

Takahashi, M., H. Ozeki and K. Kimura, A new high-resolution threshold photoelectron analyzer: observation of rotational structure of NO^+ cation 181 (1991) 255
Tamai, N., see A. Osuka 181 (1991) 413
Tanigaki, K., see T.W. Ebbesen 181 (1991) 501
Taylor, A.G., see R. Howell 181 (1991) 21
Topp, M.R., see A.J. Kaziska 181 (1991) 134
Traytak, S.D., The rate constant of diffusion-limited reactions in a weak external electric field 181 (1991) 558
Treindl, Ľ., see M. Melicherčík 181 (1991) 575
Tronc, M., see A. Modelli 181 (1991) 361

Uemiyu, T., see T. Nogami 181 (1991) 385
Ullrich, J., see V. Aust 181 (1991) 213
Umegaki, S., see T. Nogami 181 (1991) 385
Upadhyaya, B.R., see J.A. Darsey 181 (1991) 386
Urban, R.-D., P. Polomsky and H. Jones, A reassessment of the ground-state infrared spectrum of BiH and BiD 181 (1991) 485

Vanquickenborne, L.G., see M.T. Nguyen 181 (1991) 83
Van Zee, R.J., see Y.M. Hamrick 181 (1991) 193
Varma, V.S., see R.K. Agrawal 181 (1991) 441
Vieth, H.M., see K. Börner 181 (1991) 563
Von Schütz, J.U., see V. Aust 181 (1991) 213

Walter, D., see H. Oser 181 (1991) 521
Wang, M., see R. Chen 181 (1991) 168
Waugh, K.C., Reply to the comment on "On the role of promoters in promoted iron catalysts used in the industrial synthesis of ammonia" 181 (1991) 383
Weaver, J.H., see G.H. Kroll 181 (1991) 112
Weltner Jr., W., see Y.M. Hamrick 181 (1991) 193
Wiersma, D.A., see H.C. Meijers 181 (1991) 312
Winstead, C.B., K.X. He, D. Grantier, T. Hammond and J.L. Gole, Electric-field-enhanced laser-induced plasma spectroscopy of jet-cooled silicon trimer 181 (1991) 222
Wolf, H.C., see V. Aust 181 (1991) 213

Xiao, L., see M.E. Kellman	181 (1991) 141
Yamada, H., see A. Osuka	181 (1991) 419
Yamasaki, K., see H.C. Miller	181 (1991) 250
Yamazaki, I., see A. Osuka	181 (1991) 413, 419
Yang, X.-F., see I.W.M. Smith	181 (1991) 335
Yasuda, N., see T. Nogami	181 (1991) 385
Yinnon, A.T., see R.B. Gerber	181 (1991) 553
Yoon, B.J., S.D. Hong, M.S. Jhon and H.A. Scheraga, Calculation of the entropy and the chemical potential of fluids and solids from the radial free-space distribution function	181 (1991) 73
Yoshimura, Y. and Y. Kimura, Solvent-density dependence of the unimolecular reaction rate: dissociation reaction of 2-methyl-2-nitrosopropane dimer in carbon dioxide from gas to liquid states	181 (1991) 517
Zewail, A.H., see M. Dantus	181 (1991) 281
Zhang, J.Z.H., Variational calculation of integral cross sections for the reaction $F + H_2 \rightarrow HF + H$	181 (1991) 63
Zhang, R., see K. Han	181 (1991) 474
Zheng, X., see K. Han	181 (1991) 474

